# PATENT COOPERATION TREATY

# **PCT**

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER		see Form PCT/ISA/220
FE241491	ACTION		l as, where applicable, item 5 below.
International application No.	International filing date (day/mo	nth/year)	(Earliest) Priority Date (day/month/year)
PCT/KR2004/001859	23 JULY 2004 (23.07.20)	04)	24 JULY 2003 (24.07.2003)
Applicant			
UTStarcom Korea Limited et al			
This International search report has been prep to Article 18. A copy is being transmitted to t		ing Authority	and is transmitted to the applicant according
This international search report consists of a t	otal of 3 sheets.		
It is also accompanied by a cop	y of each prior art document cited	in this report	
Basis of the report     a. With regard to the language, the int language in which it was filed, unless	ss otherwise indicated under this i	tem.	
this Authority (Rule 23.		ranslation of t	the international application furnished to
b. With regard to any nucleotide	and/or amino acid sequence disc	closed in the in	nternational application, see Box No. I.
2. Certain claims were found un	nsearchable (See Box No. II)		
3. Unity of invention is lacking (	(See Box No. III)		
4. With regard to the title,			
X the text is approved as submitte	ed by the applicant.		
the text has been established by	this Authority to read as follow	s:	
5. With regard to the abstract,			
X the text is approved as submitted	ed by the applicant.		
the text has been established, a	ccording to Rule 38.2(b), by this A	Authority as i	t appears in Box No. IV. The applicant
may, within one month from th	e date of mailing of this internation	onal search rep	port, submit comments to this Authority.
6. With regard to the drawings,			
a. the figure of the drawings to be pub	olished with the abstract is Figure	No2	
X as suggested by the appli	cant.		
because the applicant faile	ed to suggest a figure.		
because this figure better	characterizes the invention.		
b. none of the figure is to be publ	ished with the abstract.		
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International application No. PCT/KR2004/001859

#### A. CLASSIFICATION OF SUBJECT MATTER

## IPC7 H04B 7/155

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 H04B 7/155, 7/26, 10/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched KOREAN PATENTS AND APPLICATIONS FOR INVENTIONS SINCE 1975

KOREAN UTILITY MODELS AND APPLICATIONS FOR UTILITY MODELS SINCE 1975

Electronic data base consulted during the intertnational search (name of data base and, where practicable, search terms used) KIPONET, DELPHION & Keywords: base, station, repeater, optical, microwave and similar terms

### C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
х	JP 07-30493 A (Sumitomo Electric Industries Ltd.) 31 January 1995 * abstract, paragraph [0010] - [0019] *	1
x	JP 11-112409 A (NTT Mobile Communication Network Inc.) 23 April 1999 * paragraph [0007] - [0010], figure 1-3 *	1
x	US 5689355 A (Kokusai Electric Co., Ltd. et al.) 18 November 1997 * column1 line29-67, figure 4 *	1
Α	US 2003/0143947 A1 (LG Electronics Inc.) 31 July 2003 * the whole document *	1
Α	JP 2002-118870 A (Mitsubishi Electric Co.) 19 April 2002  * the whole document *	1

ì	Further	documents	are	listed	in	the	continuation	of	Box	C.

X See patent family annex.

- \* Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other
- "P" document published prior to the international filing date but later than the priority date claimed
- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report

19 OCTOBER 2004 (19.10.2004) 20 OCTOBER 2004 (20.10.2004)

Name and mailing address of the ISA/KR



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## INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.
PCT/KR2004/001859

Patent document cited in search report		Publication date	Patent family member(s)			Publication date		
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US	5689355 A	1997-11-18	DE	69527222	 D1	2002-08-08		
			DE	69527222	T2	2003-03-13		
			EP	0674452	A2	1995-09-27		
			EP	0674452	A3	1996-01-03		
			EP	0674452	B1	2002-07-03		
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			KR	2002-054588	Α	2002-07-08		
 JР	2002-118870 A	2002-04-19	NON	 E				